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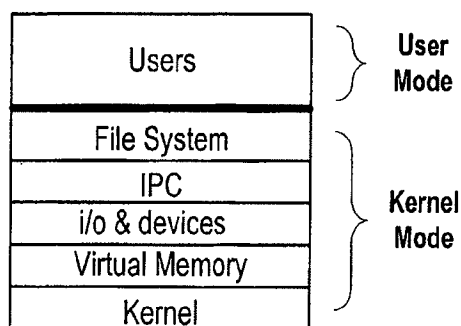
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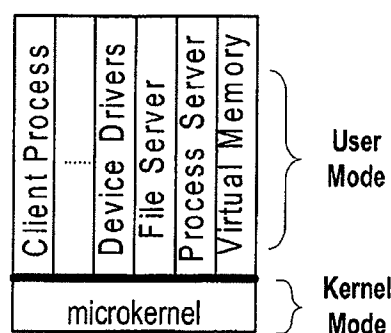
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(54) Title: IMPROVEMENTS IN OR RELATING TO AN OPERATING SYSTEM FOR A COMPUTING DEVICE



Layered monolithic  
kernel design



Microkernel  
design

(57) Abstract: An operating system for a computing device includes a scheduler incorporating an algorithm for ordering the running of threads of execution having different priorities. The operating system is also arranged to provide a list of threads which are scheduled to run on the device, ordered by priority. At least one locking mechanism for docking access to a resource of the device from all threads except for a thread that holds the locking mechanism is also provided, and the operating system arranges for a scheduled thread which is docked from running because the resource it requires is locked to cause the thread which holds the locking mechanism to run.